



12 Jan 1951

The Missouri Miner, January 12, 1951

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DEC. 15, 1950
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THE MISSOURI MINER

Missouri School of Mines & Metallurgy

VOLUME 37

ROLLA, MO., FRIDAY, JAN. 12, 1951

NUMBER 13

Final Examinations Schedule

Fall, 1950 - 51		
January 17, noon, to January 23		
Free Day January 16, noon, to January 17, noon		
Final Grades Due January 24, noon		
Ceramics Engineering		
51	Friday 3:10 p. m.	102 Exp. Station
101	Friday 10:10 a. m.	102 Exp. Station
151	Wednesday 1:00 p. m.	106 Exp. Station
250	Friday 1:00 p. m.	106 Exp. Station
351	Wednesday 1:00 p. m.	102 Exp. Station
252	Thursday 3:10 p. m.	202 Exp. Station
264	Saturday 8:00 a. m.	102 Exp. Station
311	Monday 3:10 p. m.	102 Exp. Station
312	Wednesday 3:10 p. m.	102 Exp. Station
352	See Instructor	See Instructor
Chemical Engineering		
1 a	Thursday 3:10 p. m.	103 Old Chem
1 b	Wednesday 1:00 p. m.	103 Old Chem
3	Saturday 8:00 a. m.	103 Old Chem
7 a	Saturday 8:00 a. m.	8 Chem Engr.
7 b	Monday 10:10 a. m.	210 Chem Engr.
9	Wednesday 3:10 p. m.	8 Chem Engr.
13	Saturday 8:00 a. m.	116 Chem Engr.
56	Wednesday 3:10 p. m.	8 Chem Engr.
221	Monday 10:10 a. m.	8 Chem Engr.
241	Wednesday 3:10 p. m.	109 Old Chem
261	Saturday 8:00 a. m.	119 Chem Engr.
263	Monday 10:10 a. m.	8 Chem Engr.
265	Wednesday 1:00 p. m.	8 Chem Engr.
267	Thursday 3:10 p. m.	115 Chem Engr.
281	Monday 10:10 a. m.	115 Chem Engr.
325	Friday 3:10 p. m.	214 Chem Engr.
349	Wednesday 1:00 p. m.	116 Chem Engr.
435	Wednesday 3:10 p. m.	115 Chem Engr.
445	Wednesday 3:10 p. m.	115 Chem Engr.
455	Wednesday 3:10 p. m.	119 Chem Engr.
Civil Engineering		
1 a	Saturday 8:00 a. m.	300 Harris
1 b	Friday 3:10 p. m.	300 Harris
1 c	Monday 1:00 p. m.	300 Harris
1 d	Tuesday 8:00 a. m.	300 Harris
5 a	Friday 3:10 p. m.	T-1: 100
5 b	Thursday 3:10 p. m.	300 Harris
49 a	See Instructor	See Instructor
49 c	See Instructor	See Instructor
49 d	See Instructor	See Instructor
49 e	See Instructor	See Instructor
61 b	See Instructor	See Instructor
61 c	See Instructor	See Instructor
101 a	See Instructor	See Instructor
101 b	See Instructor	See Instructor
111 a	Monday 10:10 a. m.	102 Harris
111 b	Friday 1:00 p. m.	300 Harris
121 b	See Instructor	See Instructor
123 a	See Instructor	See Instructor
225 a	See Instructor	See Instructor
229 a	See Instructor	See Instructor
229 b	See Instructor	See Instructor
131 a	Thursday 3:10 p. m.	102 Harris
131 b	Friday 3:10 p. m.	102 Harris
131 c	Monday 3:10 p. m.	300 Harris
131 d	Friday 10:10 a. m.	300 Harris
243 a	See Instructor	See Instructor
243 c	Tuesday 10:10 a. m.	300 Harris
243 d	See Instructor	See Instructor
350	See Instructor	See Instructor
361	See Instructor	See Instructor
365	See Instructor	See Instructor
371	See Instructor	See Instructor
Electrical Engineering		
51 a	Saturday 8:00 a. m.	T-5: 100
51 b	Monday 1:00 p. m.	T-5: 100
53	Wednesday 3:10 p. m.	T-5: 100
101 a	Thursday 3:10 p. m.	101 Norwood
101 b	Saturday 1:00 p. m.	101 Norwood
103 a	Wednesday 1:00 p. m.	108 Norwood
103 b	Tuesday 8:00 a. m.	T-3: 101
105 a	Thursday 3:10 p. m.	108 Norwood
105 c	Wednesday 1:00 p. m.	T-5: 100
107 a	Saturday 8:00 a. m.	T-5: 101
107 b	Saturday 1:00 p. m.	108 Norwood
121 a	Friday 3:10 p. m.	108 Norwood
121 c	Monday 8:00 a. m.	T-5: 100
123 a	Monday 3:10 p. m.	T-3: 101
123 b	Monday 8:00 a. m.	T-5: 101
125 a	Saturday 8:00 a. m.	101 Norwood
125 b	Wednesday 3:10 p. m.	T-5: 101
131 a	Saturday 1:00 p. m.	104 Norwood
131 b	Thursday 3:10 p. m.	104 Norwood
133	Monday 1:00 p. m.	108 Norwood
135 a	Friday 3:10 p. m.	104 Norwood
135 b	Monday 10:10 a. m.	T-5: 100
141 a	Wednesday 3:10 p. m.	108 Norwood
141 b	Tuesday 8:00 a. m.	T-3: 104
251	Saturday 8:00 a. m.	104 Norwood
261	Friday 3:10 p. m.	101 Norwood
277	Wednesday 3:10 p. m.	104 Norwood
341	Saturday 8:00 a. m.	108 Norwood
351	Friday 3:10 p. m.	T-5: 100
353	Monday 8:00 a. m.	108 Norwood
355	Saturday 1:00 p. m.	T-5: 100
363	Thursday 3:10 p. m.	T-5: 100
365	Thursday 1:00 p. m.	108 Norwood
367	Thursday 10:10 a. m.	108 Norwood
375	Wednesday 3:10 p. m.	T-4: 104
377	Tuesday 8:00 a. m.	T-5: 100
Geology		
51	Thursday 3:10 p. m.	210 Chem Engr.
52	Wednesday 3:10 p. m.	203 Norwood
113 a & b	Monday 1:00 p. m.	204 Norwood
139 a	Monday 10:10 a. m.	204 Norwood

(Continued on Page 4)

FORRESTER'S NEW BOOK STRESSES MISSOURI'S MINERAL IMPORTANCE

J. D. Forrester, professor of mining engineering at the School of Mines, points out Missouri's mineral resources, especially lead and zinc, which are important to defense production in a chapter of a new book, "Missouri, Its Resources, People, and Institutions," written by a group of University of Missouri professors and published by the University.

Missouri's importance to the war effort as a mineral producing state was recently emphasized by the establishment of offices of the Defense Minerals Administration in Joplin for the Tri-State lead and zinc belt.

Prof. Forrester stated that Missouri always has been a leader among the states producing lead and 1947 was the fortieth consecutive year the state surpassed all others in that respect. Production in Missouri comes largely from the Lead Belt area south and a little west of St. Louis, principally in St. Francois and Madison counties. It is also produced in considerable quantities in southwestern Missouri.

"The Lead Belt has been recognized since 1908," he continued, "as the main lead-producing region in the United States."

According to Prof. Forrester, the extent of lead resources still to be mined in Missouri has not been ascertained exactly. The Lead Belt, he says, probably will yield far in excess of a minimum of 100,000 tons now estimated by government bureaus, and the Tri-State district eventually should furnish 50,000 tons of the metal.

"Since lead is obtained somewhat as a by-product to zinc mining in the Tri-State district, the future production from the Missouri part of the district is largely dependent upon the operation of the zinc mines."

Missouri's major zinc producing field centers around Joplin, Webb City, and Carthage in Jasper County.

Since 1907, nearly 500 million tons of ore have been mined and processed in Missouri. In recent years, says Prof. Forrester, there have been indication of a marked increase.

MSM APPROPRIATION OF \$1,655,000 SUBMITTED TO STATE LEGISLATURE

Gov. Forrest Smith, in his budget message to the Legislature this week, recommended that the full amount requested by the Board of Curators be appropriated for the School of Mines at Rolla for the 1951-53 biennial period, starting next July 1.

The recommended appropriation, out of the State's general revenue fund, total \$1,655,000, which represent an increase of \$337,000 over the \$1,318,000 approved for the previous two years.

The requested MSM funds would include \$1,105,000 for personal services, \$50,000 for additions, and \$500,000 for operations. For the present biennium this breakdown was \$810,000 for personal services, \$133,000 for additions, and \$375,000 for operations.

In addition, the Governor approved \$500,000 to complete the mechanical engineering building and \$240,000 to complete the chemical engineering building.

The School of Mines appropriations was included in \$18,939,069 approved by the Governor for operations of the State's nine higher educational institutions.

All in all, Gov. Smith submitted to the lawmakers a total budget of \$609,972,705 for the operation of Missouri's government for the coming two years. This is an increase of \$12,638,760 over the amounts appropriated two years ago.

Another big 'Rolla Night' at Engineers Club of St. Louis while students are in St. Louis on Between the Semesters Vacation on Thursday night, January 25th at 8:15. Talk on "Meteorology" by Neils Beck of Parks Air College. Introduction of new members and guests.

All male M.S.M. students and graduates are urged to come as guests of the 125 graduates and 30 students who are club members.

Here is your chance to inspect the club facilities and to enjoy the famed refreshment hour.

A time for M.S.M. students and grads to visit. No students should miss this meeting—at Club Headquarters 4359 Lindell Blvd. Come and see the Big January Class of New MSM members introduced.

January Grads Urged To Take EIT Exam Scheduled Tomorrow

The Engineer in Training Examination will be given tomorrow for January graduates. The general science and mathematics part will be given in the morning from 8:00 a. m. to 12:00 p. m. and the part pertaining to the various curricula is scheduled from 1:00 p. m. to 5:00 p. m. See the bulletin boards as to where you go for your examination. The morning portion is closed book but the afternoon portion is open book. Anyone may bring as many books as desired to the afternoon exam.

If you have not as yet made arrangements to take the exam it is not too late. The five dollars charge for the exam will be accepted up until the time of the exam. Go to 106 Harris Hall to make the necessary arrangements if you have not already done so. Anyone flunking the exam will have another opportunity to take the exam without paying an additional fee. Checks will not be cashed till the middle of next week.

We would like to take this opportunity to emphasize the importance of this examination. We urge all January graduates to take the exam if they can possibly do so. Although engineers can be registered in the state of Missouri without taking the exam, those engineering graduates transferring to other states will find it necessary to take an examination of some kind. The Missouri E.I.T. exam is recognized in most states. Those who intend to remain in Missouri will find that taking the exam will add weight to their status as an engineer. Registration laws for engineers are periodically changing in Missouri as well as other states so that it will be well to take the exam now. Let's have a hundred per-cent turnout for the exam. Help to unite your profession.

2 MSM Professors On Special Program

A special conference for teachers of humanities subjects in colleges and universities of the eastern section of Missouri will be held tomorrow and Saturday at the Jefferson Hotel in St. Louis.

Prof. Carl Christy of the English department of the School of Mines will serve as chairman of a group discussion on literature which will meet Friday evening.

A. C. Steinbach, professor of German at the School of Mines, will serve as the recorder for a discussion group on continental literature also to be held Friday night.

The purpose of the conference is to stress improvements in the teaching of humanistic studies. The Program for the Improvement of Instruction in Colleges and Universities of Missouri is a five-year program being financed with a \$50,000 grant for the purpose from the Carnegie Foundation for the Advancement of Teaching.

STUDENTS ADVISED NOT TO ENLIST IN STATEMENT BY DEAN

College students will be serving both their country and themselves best by staying in school as long as they can in order to receive as much training as possible, according to Assistant Dean Rex Z. Williams. In a statement, Dean Williams said that from all indications the armed forces are prepared to recognize college training even more now than they have in the past.

If plans now under consideration materialize, many of the students who are enlisting now in order to obtain the best job in the armed forces may find that they could have stayed in school until they graduated. A plan being considered would allow students in certain curricula to finish their schooling before they were called.

Selective Service regulations are exactly the same now as they were last summer. Under present law, full-time students now in school who are making satisfactory progress will have their induction postponed until the end of the school year (May 29). Satisfactory progress is defined in this school as not being on probation. Such students are classified 1-A and may be called up to take a physical examination, but the Selective Service board must postpone their induction as indicated. They cannot enlist in any other branch of the service after they have been called.

There is a regulation in use by many boards that if a student was in school during the entire 1949-50 school year (summer school not necessarily included) and if he was in the upper half of his class during that year, then he may be given a 2-A classification. A number of M.S.M. students have received such classification, which is called an occupational deferment. Men in class 2-A are not called up for physical examinations. Though many boards are giving 2-A classifications, it is not mandatory for them to do so.

The situation for those in the reserves is at present very uncertain. As it stands now any student in the reserves who is called to active duty may request a delay of his call to duty. He will receive with his call instructions as to procedure. So far the school has been very successful in obtaining delays for men within a semester of graduation and rather successful in getting delays for those within

M U Professor Speaks At Theta Mu Banquet

The first function planned by the relatively new fraternity, Theta Mu, was conceived in the form of an installation banquet held at the Houston House last Tuesday evening. The banquet received wholehearted support for the membership and was further blessed by the presence of Dean Wilson, Professor Lovett, and Dr. Donald L. Waidelich, the guest speaker.

Dr. Waidelich spoke of the accomplishments and aims of various chapters of Eta Kappa Nu, the national honorary electrical engineering fraternity. Dr. Waidelich is at present a professor at the University of Missouri, and has been the faculty advisor of the local chapter of Eta Kappa Nu for a number of years. Some twenty-odd ears listened attentively during the speech, as it is the primary aim of all connected with Theta Mu to become a chapter of Eta Kappa Nu in the near future.

The group departed filled with many ideas that will prove to be of invaluable aid in the formation of the fraternity. With such helpful suggestions there can be little doubt that the organization will grow and prosper into a top-notch fraternity.

2nd Largest January Class in History of MSM Grads

Civils Lead 208 Grads, Mechanicals Follow

At the end of this semester, two hundred and eight Seniors will have completed their requirements for graduation. Due to the lack of ample time to prepare and hold a mid-winter commencement, these men will receive their degrees at the regular June commencement.

Having sweated and pleaded in some ways, even worked their way through eight semesters of school, they deserve the congratulations of the school and any envious glances the Freshmen may cast their way.

These seniors constitute the 2nd largest January graduation class in the history of the school. Even during the war years under the accelerated training program, when the January classes were larger than the June classes, the largest total ever attained was in 1944 with a graduation class of 77. Since the end of the war, the largest class to graduate was in Jan. 1949 when one hundred and thirty-two received their sheepskins.

Of the two hundred and eight who are eligible for graduation one hundred and ninety-four will be receiving B.S. degrees. Civil top the list with 39, followed by Mechanicals with 38. Other departments are as follows: Mining Engineering 24, Mining Geology 13, Petroleum Engineering 12, Metallurgy 14, Electrical 23, Chemical 11, and Ceramic 7. There will be three M.S. degrees in each of the Geology, Metallurgical, and Electrical Engineering Departments; two in Chemical and Mechanical Engineering, and one in Mining Engineering. In addition, eight others will receive B.S. degrees, 3 in Chemistry, 3 in Physics, 1 in Ceramics, and 1 in Metallurgy.

TRINITY HOLDS NAT'L BLUE KEY CONVENTION

Blue Key national honor fraternity members through the United States have adopted as their official song The Blue Key Anthem, composed by Forrest Goodenough, assistant professor of the Trinity chapter of the Blue Key.

The song will be published in San Antonio and mailed on order to the chapters of Blue Key. Sponsors of the Trinity chapter are Professors Albert Herff-Beze and Truman Barber.

Professor Goodenough's compositions have been widely used in recent months, including "Variations on When Johnny Comes Marching Home" broadcast three weeks ago over the National Broadcasting Company by the First Piano Quartet; "String Quartet No. 3" played by the Horace Britt Ensemble of the University of Texas; "Two Essays for Small Orchestra" by the New Orleans Symphony Orchestra; and a two piano piece performed at Woodstock, New York. Mr. Goodenough has been a member of the American Composers Alliance since 1945 and has been twice the recipient of the Woodstock Foundation of Arts Award which enabled him to write music on subsidy.

Bill Hathaway, son of Mr. and Mrs. W. Frank Hathaway of San Antonio, will be a candidate for the Bachelor of Arts degree at Trinity University May 28. He has served as vice-president of the Student Council.

Attending the Blue Key Convention in San Antonio, Dec. 27, 28, and 29, 1950, was Neal Dowling, delegate from Missouri School of Mines, Rolla, Missouri.

There is a nurse who is so conceited that when she takes a patient's pulse she subtracts ten beats for her personality.

CONVERSATIONAL SPANISH - FRENCH ON CURRICULUM

Spanish One and French One will be offered as practical conversation courses next semester. Those interested please contact Instructor Capps through the secretary of the Humanities Department, so that texts may be ordered in advance. In case of conflicts, arrangements may be made.

MSM INCOME LAST YEAR TOPPED TWO MILLIONS; HALF FROM STATE FUNDS

The University of Missouri has made public the annual report of its board of curators to the General Assembly, showing that the institution's income from all sources last June 30 was \$16,007,198.09 or \$33,792.52 less than the previous year.

The income included \$13,975,908.39 for the university proper at Columbia and \$2,031,289.70 for its School of Mines and Metallurgy at Rolla.

Expenditures for the year at Columbia totaled \$13,306,386.70, the report shows. At Rolla expenditures were \$2,130,744.16. The university at Columbia finished the year with a balance of \$3,055,134.42, and with an estimated \$999,869.44 due it from the Veterans Administration. The Rolla balance at the end of the year was \$849,891.58 and it was estimated that an additional \$378,000 was due from the Veterans Administration.

Net Worth of Two Plants

The report placed the net worth of the university at Columbia at \$39,713,581.86, including \$29,898,283.86 investment in physical plant. The School of Mines balance sheet showed total assets of \$5,199,068.47 of which \$3,545,401.61 was described as investment in plant.

State appropriations provided for less than half of the income of the Columbia institution, for a little more than half of the Rolla income.

The statement broke down the sources of income this way:

School of Mines at Rolla	
Source	Amount
State Appropriations	\$1,138,139
Federal appropri.	216,105
Sales and Services	59,940
Student fees	340,611
Housing	135,549
Athletics	29,543
Other sources	114,400
TOTAL	\$2,031,289

Engineer's Creative Thinking Is Always Needed In Industry

If you were asked what is meant by "Shelf Hardware Design", what would your answer be? According to Mr. George S. Russell of Russell & Axon Consulting Engineers who recently spoke to ASCE, the term applies to Standard Plans and shelves of old designs which are sometimes used to design new and similar projects. Mr. Russell believes that this practice can only tend to retard creative thinking and deteriorate engineering.

A small town in the mid-west recently bought a "package" sewage disposal plant supposedly designed for 35,000 people which was the population of the town. After the plant was installed and failed to function properly, an investigation showed that there were two breweries, one packing house, and one laundry which were contributing industrial wastes far in excess of the anticipated sanitary waste. Such is the result of Shelf Hardware design. Should Shelf Hardware become too prominent, then Engineers are not needed.

There are no short cuts to good engineering design, and there are no substitutes for proper preliminary investigation and good common sense in design.

THE MISSOURI MINER



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CROSSWORD PUZZLE

HORIZONTAL

1. Agreement
6. Somewhat obscure fish
11. Exclamation
12. Quotations mark
13. Point with weapon
14. Each (Abbr.)
15. Printer's measure
16. Fish of carp family
17. Wreath of flowers
18. Fathers (Abbr.)
19. Personal pronoun
20. Palladium ore
21. Bone
22. European capital
23. Piccadilly
24. Marked with variegated lines
25. Mild
26. Asiatic kingdom (Abbr.)
27. Crayon pictures

VERTICAL

1. Exclamation to draw attention
2. Photographic instrument
3. Bustard
4. Act astir
5. Piercing a great way
6. South Sea island (Abbr.)
7. Falsehoods
8. Send forth
9. Relate
10. Barks
21. Natural abode
22. English saloon
24. Doctrine
25. Pig pen
26. Writing instrument
27. Kind of fish
28. Nocturnal bird
31. Kind of blanket
33. Eagerly desire
34. Consumes
35. Outlike murmur
36. On the sheltered side
37. Talk back (Slang)
38. Heroic
39. Italian coin
40. Sate
42. Image

THIS WEEK'S ANSWERS
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Atlas Features Syndicate

OUT OF THE SEPTIC TANK

BY
FLUSH & SLUSH



We don't know if we're going to start the New Year off right, but we're going to try. If the column seems a little rattled it's because one of the authors is in the same condition. Flush was when having a few friendly ones with the boys on Christmas Eve when right in the middle of the night the sun came up. After consulting a half dozen almanacs and finding no prediction of such an event, he's convinced that he's witnessed a miracle.

It's no great secret that this column is strictly for the bull and just to show you how close to home you can get, Slush and the car he was driving through the free-range state of Florida tackled such a creature. Result? ... one creamed front end and one indignant bull.

Funny thing about Rolla—it's something similar to a chigger bite—we weren't back five minutes and it felt like we had never left. In coming back, we were impressed by the boom in advertising shown by various local merchants—new outdoor signs, placards, etc. On one of the latter we noted this ad: "For fifty cents you can eat like a horse!" Yeah, for a buck you can eat like a man.

Politicians and interested Republicans take note. We've finally discovered the difference between the Panama Canal and Margaret Truman—one's a busy ditch, the other is a so-so singer. I'll bet we get a letter from Harry on this one. We will auction it off immediately and the proceeds will go for a Republican barbecue and beer bust.

We're amazed at the number of jerks that got taken in by a babe "that shoulda said no,"—yeah, we were sure disappointed. We still don't get this "Stay young, stay up late ... or stay dumb!" Well, we stayed up late and it cost us six bits and we're not exactly stupid, but thank the Lord, the Brooklyn Bridge is still in Brooklyn. As for "cutting up a touch" we'd rather "bend up a beer" after that stinker. We know girls that smoke cigarettes and say yes, but nothing like that ever happens to them.

If you ever notice a perceptible odor about this column you can attribute it to our "commode"-ious office. We know, the joke's odious too. Labor thinks they have troubles regarding working conditions—what about us? The Chief says he's going to install an ultra-violet seat—in our position we get enough southern exposures but maybe with a suntan we can claim we winter at the University of Miami. See you next week—maybe.

Service Claims One Lambda Chi Officer

Now that everyone is back from their Christmas vacation, where are they? Seems as though Uncle Sam wants them worse than MSM.

Bill Gray and Paul Douglas enlisted in the Cadet Corps, and have already left. Dale Heinrich went to St. Louis last week end to enlist. Looks like there are some patriotic boys left. Good luck to you all.

No one seems to want to study after the Christmas vacation, takes about two good weeks to recuperate. Better get started on the finals men. Too bad finals can't be before the holidays.

What does everybody want to get married for? Bill Plummer and Dale Heinrich dropped their pins over the holidays. Congratulations, fellas.

Lambda Chi will have a new set of officers by this time next week. Nominations will be Jan. 8, elections will be the Monday following.

"Honey, ah loves yo bathin' suit."
"Sho' nuff?"
"It sho' does!"

Let's Go to
RITZ Rolla
ALWAYS Comfortable

Sun., Mon., Tues., Jan. 14-15-16
Continuous Sun. from 1 p.m.

First Run in Rolla!
Catherine McCleod
Paul Henreid in
"So Young, So Bad"
News and Cartoon
Adm. 10-40c Incl. Tax

Compliments of the
Houston House
We Do Enjoy
Serving You
NEWBURG, MO.

S & M SUPPER CLUB
FEATURING MALO'S ITALIAN FOODS
WINES — LIQUORS — 5% BEER
Phone 1517 Call for Reservation 2 miles E. of Rolla

A. E. Long Lois S. Long William S. Jenks, Jr.
LONG INSURANCE AGENCY
810 Pine St. "SERVICE IS OUR BUSINESS" Phone 251

B.S.U. PLANS ELECTIONS ON LOSS OF OFFICERS

The Baptist Student Union will hold its last monthly meeting of this semester tonight at 7:30 in the parlor of the First Baptist Church at 7th and Cedar Streets.

As always, a fine meeting is planned. The outstanding event of the evening will be a talk by Chaplain Golder of Chicago, Illinois. Chaplain Golder is now stationed at Fort Leonard Wood. Here is an outstanding speaker and no one should miss this opportunity to hear Chaplain Golder.

The president of the B.S.U., Howard Clark, and the second vice-president, Bob Slankard, are graduating and an election will be held to fill these vacancies.

Special music is planned and following the meeting refreshments will be served.

This should be one of the outstanding meetings of the year.

All members are urged to attend and to bring a guest. Everyone is invited.

Fifteen Men Initiated To Alpha Chi Sigma

Beta Delta chapter of Alpha Chi Sigma, national professional chemistry fraternity, initiated fifteen new men last Sunday, January 7. The new members are George Freerbsyner, Kenneth Birk, O. K. Lay, Charles Bowkley, John McIntyre, Tom Lentz, Milton Silvers, John Iselin, Charles Steinmetz, David Conklin, Glen Benedict, J. P. Greiten, Mark Winton, Howard Westermann, Robert Wickey, and Ralph Carl. Master of Ceremonies is Andy Taylor, and John Maurer is Master Alchemist.

Dr. Forrester Writes Timely Book

(Continued from Page 1)
ed depletion of reserves, particularly of the high grade ores. This trend, combined with labor difficulties, and low ore prices, contributed to a reduction in production following World War II. "The Tri-State region has not been abandoned," he added, "and will not be for many years to come, since approximately 100,000 tons of zinc are still to be mined in the district. The amount which eventually will be mined is dependent upon metal prices, mining costs and labor conditions."

Production for the defense effort, coupled with federal aid to the mine owners, should spur the

IT'S A FACT

by JERRY CAHILL

WHEN WAS THE FIRST BATTLE OF THE AMERICAN REVOLUTION? — NEXT ISSUE —

HE SHALL HAVE MUSIC WHEREVER HE GOES — BECAUSE PAUL VERDY INSTALLED A PORTABLE RADIO IN HIS WOODEN LEG! (California)

NATHAN MAYER ROBINSON PERSONALLY FOLLOWED WELLINGTON TO THE BATTLE OF WATERLOO TO BE FIRST WITH NEWS OF ITS OUTCOME AND SCORE A COUP ON THE LONDON EXCHANGE! (HE CLEARED \$6,000,000)

A MOUNTAIN MOVED BY MAN! SACRAMENTO HILL—HIGH COPPER MOUNTAIN—FIRST BIG-BOY ANKLE—HAS BEEN SO THOROUGHLY WORKED THAT NOTHING NOW REMAINS BUT AN 18-ACRE HOLE IN THE GROUND!

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TUCKER'S ICE CREAM
Rolla, Missouri

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Sig Ep's Plan Pledge Dance This Weekend

The Sig Eps won't even have time to recuperate from the Christmas Holidays, before the annual pledge dance pops up this coming weekend. This semester, pledge Jim Linn is in charge, and as always, the affair is entirely a pledge project. The actives can probably expect to be mimicked in a skit of some type.

As if the holidays didn't present, or leave a large enough headache, the house was prematurely initiated into the green ice cream season this new year, with large portions of the stuff for all hands. The menu now reads: green ice cream for breakfast, lunch, dinner, dessert, and in-between-meal snacks. The big question is where the green ice cream came from. It certainly wasn't made for Christmas, or Thanksgiving, or the 4th of July, and it certainly couldn't be left from last St. Pat's, or could it.

Perhaps the biggest surprise of all was the revelations of one Dick Roemer, a confirmed bachelor, had a change of attitude over the holidays. Others following in his footsteps were Stan Niemczura and Lloyd Laciny.

output in the Southwestern Missouri field. Operators expect 1951 to be a boom year, pushed along by a recent metal price increases and the promise of federal aid.

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MSM DRAFT

(Continued from Page 1)

two semesters. A few delays have been obtained for men even farther from graduation. Members of organized units have less chance of receiving a delay although some are getting them.

Any student under Selective Service who has not yet had the school certify his attendance here is advised to call at the Assistant Dean's office and have this certification made.

CLASSIFIED ADS

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Fri., Sat., Jan. 12-13
Shows 7 and 9 p.m.

SADDLE TRAMP
Starring
Joel McCrea
Wanda Hendrix
Color by TECHNICOLOR

Sun., Mon., Tues., Jan. 14-15-16
Sun. Continuous from 1 p.m.

KING SOLOMONS MINES
Color by TECHNICOLOR
DEBORAH KERR - STEWART GRANGER

Wednesday, Jan. 17
One Night Only

DIAL 1119
MARSHALL THOMPSON - VIRGINIA FIELD

Coming
Thurs., Fri., Sat., Jan. 18-19-20
Wendell Corey — Ellen Drew
MacDonald Carey — Ward Bond
"Great Missouri Raid"

ROLLAMO THEATRE

Fri., Sat., Jan. 12-13
Double Feature Program
Sat. Continuous from 1 p.m.
Charles McGraw-Adele Jergens
Armored Car Robbery

HOLT Rider from Tucson

Sun., Mon., Jan., 14-15
Sun. Continuous from 1 p.m.
Stage and Screen Show
2 famous Movie Bad Men
On the Stage in Person
"Jack Ingram and Stan Jolley"
On the screen
Robert Mitchum
Burgess Meredith
"Story of G. I. Joe"

Tue., Wed., Jan. 16-17
Shows 7 and 9 p.m.
Fred MacMurray
Madeline Carroll
"Don't Trust Your Husband"
Thursday, Jan. 18
Lum and Abner in
The Bashful Bachelor

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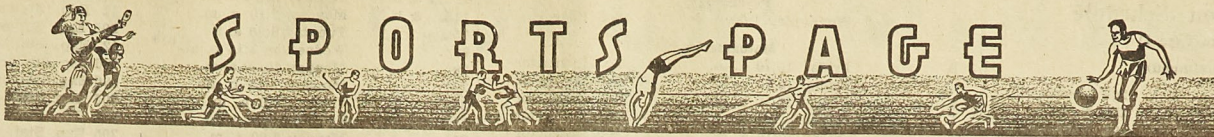
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Faulkner Leads Team to 1st Win

MINERS JUMP TO MIAA LEAD WITH 62-59 WIN

The Miner quintet presented their coach with a long sort after victory for a Christmas present. Paced by our two reliable veterans, Burgett, and Faulkner, the Miners exploded in the closing minutes of the game to down Cape Girardeau 62-59.

Bob Faulkner having one of his finest evenings of the season pushed through 19 points, while following close behind was Moe Burgett. Harry Watson played a strong game under the backboards, and managed to tap in 8 points. The Miner defense had sharpened considerably and showed marked improvement from the previous games.

With 5 minutes remaining the Cape Girardeau Indians were leading Rolla by 8 points. The Rolla defense tightened up its strings and the offense guns opened up. Faulkner and Burgett swished the cords for two quick scores and Watson tapped in another basket before Cape recovered from the initial barrage.

Lacking in reserves, the Indians began to show their weariness. The crowded gym was reeling from the shrills of the shock co-eds as the Miners tied the score. With less than a minute to play Roger Burns dunked in a long shot to put the Miners ahead for keeps. Burgett was fouled and iced the game with the final point.

MINERS	FG	FT	F	Pts
Burgett	7	2	4	16
Nichols	0	0	1	0
Faulkner	6	7	4	19
Lanning	1	0	1	2
Watson	3	2	5	8
Burns	1	6	1	8
Henson	0	3	2	3
Gjelsteen	1	0	2	2
Fuerst	1	0	1	2
Weber	0	0	1	0
Smith	0	0	1	0
Clarke	0	2	0	2

CAPE	FG	FT	F	Pts
Engleman	2	2	2	6
Maxey	1	1	5	3
Buckhorn	3	4	3	10
Manns	3	1	4	7
Estes	1	0	5	2
Henderson	1	1	3	3
Wilson	11	0	1	22
Proffer	1	0	0	2
Belobraydic	2	1	0	5

THE MOST POPULAR SPORT IN THE WORLD

The world's most popular sport, played in sixty countries and drawing in the United States alone more than 40,000,000 players and 125,000,000 paying spectators in a recent year, the game of basketball was invented in 1891 by Dr. James A. Naismith.

To provide students with indoor exercise and competition between football and baseball seasons, Naismith, a Canadian clergyman and student instructor under Dr. Luther H. Gulick, head of the Physical Education Department of the International Y. M. C. A. Training School, now Springfield College, Mass., deliberately invented basketball as part of his school's research program.

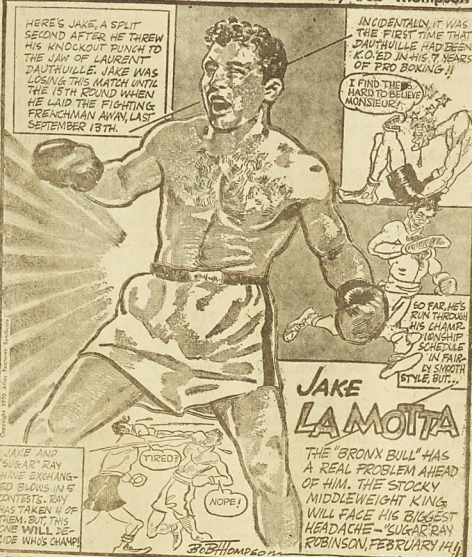
Placing wooden peach baskets overhead on opposite ends of the gymnasium and using an association (soccer) football, Naismith organized his teams. Eighteen players were available and the first rule of basketball became: "There shall be nine players on each side." The size of teams later became optional depending on the size of available courts, the five-player standard being adopted when the game spread over the country.

World-wide popularity came to basketball through Y.M.C.A. officials taking it as part of their athletic program to many foreign countries, including Turkey and India. Missionaries, as Galliey and Exner in China and Goodhue in Syria, aided its spread abroad. Reaching Panama through the builders of the canal, American soldiers carried it to the Philippines, France, and Germany.

Introduced in South America as a game for girls, basketball was retarded in developing there as a prominent sport. Gradually this impression was overcome and the game came to be played

SPORTS

by Bob Thompson



FANS Who is your favorite Sports' personality? Write to the sports editor, care of this newspaper.

enthusiastically by both boys and girls.

Played today in other countries, basketball is almost always outdoors, often on a field 50 yards wide and 100 yards long with as many as 50 players on each side using two balls. It also can be played as a game of marksmanship by only two persons, and as water basketball.

One of its biggest boosts to greater international popularity came to basketball in 1936 when the sport was added to the official list of events for the Olympic Games in Berlin.

Due to Naismith's deliberate invention of the game, basketball differs from sports which preceded it because they evolved from their simpler forms. A team game demanding a high degree of accuracy, judgment, individual skill, initiative, self-control, and the spirit of cooperation, basketball is fundamentally the same today as in 1891 although many improvements in equipment and changes in rules have been made.

Among changes in basketball rules since 1891, probably the most important to the game's growth in spectator popularity came in 1937. Speeding up basketball to such a pace that typical scores rose from figures in the thirties to figures in the sixties and seventies, the center jump was eliminated after field goals and free throws. The scored-on team now puts the ball into play from out of bounds, the center jump being used only to start the game and its second half.

In the United States today there are five principal national and sectional annual basketball tournaments: the National Collegiate A. A. tournament, the

Intramural Sports

There has been little activity on the intramural basketball scene lately. Only four games have been played since the last issue of the Miner.

Lambda Chi was the victor of its match, defeating Gamma Delta by a score of 53-21. Hook and Heinick of Lambda Chi led their team to victory with scores of fifteen and ten respectively. Taylor and Weber led Gamma Delta scoring six points apiece. Dunn followed with five.

The Jr.-Sr. five remained in the undefeated bracket by beating Theta Xi 31-17. Big Boy Green once more led the Jr.-Sr. team by racking up fourteen points. Basham followed with six. Rober was the high scorer for Theta Xi with four points and three teammates tied for second honors with three.

Kappa Sigma rolled over Wesley 54-36. The Kappa Sigs had only one substitute available throughout the game. Schaffer was outstanding pushing across twenty-one points. Hiethecker and Mallow were next with twelve and ten points respectively. Swisher of Wesley swished six field goals and three free throws for fifteen points. Crow and Henarde tied with scores of seven points apiece.

Remaining undefeated alongside of the Jr.-Sr. team is the Tech Club. The Tech Club beat Alpha Epsilon Pi by a score of 43-9. This shows good defensive play on the part of Tech Club. Kinert was high with ten points. Haynes and Forrester were tied for second with seven points apiece. High for AEPII was Cohen with four points.

N. C. A. A. Eastern Sectional Championship, the Western Sectional Championship, the National Intercollegiate Invitation Tournament, and the National A. A. U. Championship for men. Also there are the East-West College All-Star Game and those of the Professional Basketball Association of America.

NEW FOOTBALL SHOE BEING DEVELOPED BY MACGREGOR-GOLDSMITH

A radical improvement in football shoes has been announced by MacGregor Goldsmith, Inc., one of the nation's top athletic equipment manufacturers.

The improvement consists of a ring cleat, which is placed on the sole of the shoe directly beneath the ball of the foot. An additional cleat of circular arc form is placed on both the toe and heel of the shoe.

These cleats, according to extensive tests, give equal or more traction than afforded by seven conical cleats now in common use on football shoes, and will insure the player of better get-away, greater maneuverability, and surer stops.

In addition, it has been found in actual practice that injuries to ankles and knees are greatly reduced.

The ring cleat principle was developed and engineered for MacGregor Goldsmith at Cornell Aeronautical Laboratory, Inc., as part of a continuing research program of MacGregor Goldsmith to produce safer and better football equipment.

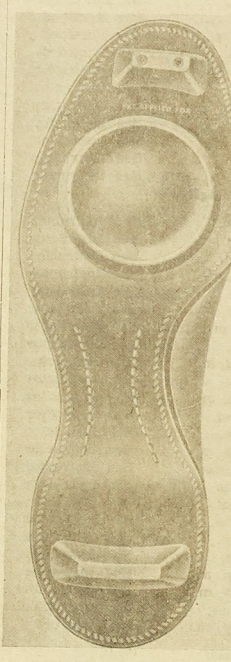
Both the construction and location of the new cleats contribute directly to their effectiveness. They are made of lightweight aluminum alloy.

The ring cleat, being directly beneath the ball of the foot, provides a broad platform of stability and offers good traction over this area—on which most of the body weight is carried in any forward motion. The shape and position of the cleat offer the least resistance to rotation—enabling a player to turn, cut and maneuver with much greater ease, and less chance of twisting an ankle or knee than ever before.

The toe and heel cleats also assist in sudden maneuvers, since both cleats are arc-shaped, with the center of curvature at the center of the ring cleat. This engineering principle provides an axis of rotation through the ball of the foot.

The ring cleat provides greater

NEW TYPE SHOE



traction in any forward movement and the ends are beveled to provide the least resistance to any turning or rotary movement of the foot.

To reduce any clogging tendency within the ring, the cleat is so designed that any clod which might be formed would be the thinnest at the center, and therefore weakest at the section where it would receive the bending necessary to break it loose. Also, the inside surfaces of the ring are sloped to crowd the dirt towards the center of the ring, thus causing it to buckle outward when pressure on the foot is released.

It is well known from the injury records of football players that there are a large number of ankle, knee and hip injuries. A detailed analysis of these by engineers working on the ring cleat disclosed that a high percentage of injuries is the result of twisting forces on the leg, induced by the traction cleat commonly used on the soles of the shoes.

Miners Easy Prey for Maryville Five, 82-57

Saturday night found the Miners back on the beaten path to the cellar of the MIAA. The host Miners entertained the powerful Maryville Bearcats before a sparse crowd of approximately 200 in Jackling Gym.

The game started with the Bearcats tossing in three of their first five shots against the Miners version of a zone defense. Maryville quickly added to their lead and as the teams took a breather at the 10 minute mark, they held a 21 to 5 margin.

The Miners didn't go into a zone defense as the second period opened but decided it would be better to try a man to man. With Jerry Henson, Gene Huffman and Walt Smith connecting for several baskets the Miners gradually began to creep up on Maryville. When the gun went off at the end of the first half the Miners were only behind by a 37 to 30 count.

The second half opened with the first string of the Cats again putting in an appearance, and controlling the game. But with Henson leading the way the Miners found the spark to stay in the game. At the five minute mark the score was 49-41 as the Miners came up from a 46-35 deficit. But the roof fell in on the Miners as they never again were in the game.

The formality of finishing the game was the only interesting point left unless someone was wondering who was going to be high point man for Maryville. When the gun went off the final tally was 82 to 57 in favor of the eBears.

Miners	FG	FT	F	Pts
Burgett	1	2	4	4
Faulkner	3	2	4	8
Nichols	0	1	0	1
Watson	3	1	4	7
Fuerst	0	1	3	1
Huffman	4	1	4	9
Henson	8	1	3	17
Smith	4	0	2	8
Rucker	1	0	2	2
Totals	24	9	27	57
Maryville	FG	FT	F	Pts
Lyle	6	3	1	15
Buckridge	6	5	2	17
Nathan	2	5	4	9
Colter	5	3	4	13
Tanner	3	2	5	8
Laurin	7	1	1	15
Stevenson	1	1	0	3
Norton	1	0	1	2
Totals	31	20	23	82



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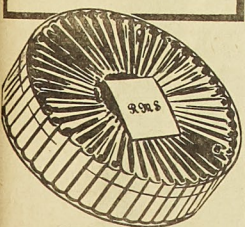
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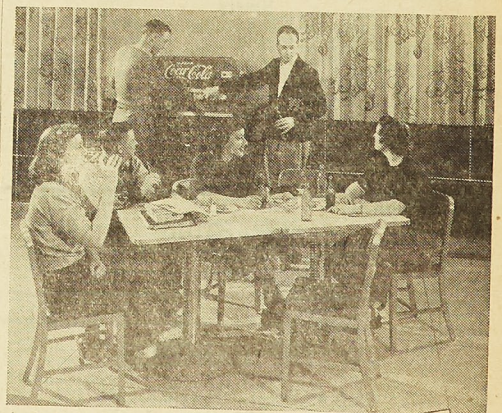
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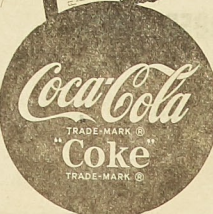
College Outlines

All Subjects

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Final Examination Schedule

(Continued From Page 1)

GEOLOGY (Continued)

130 b	Monday 10:10 a. m.	204 Norwood
130 c	Monday 10:10 a. m.	204 Norwood
141	Friday 3:10 p. m.	204 Norwood
293	Wednesday 1:00 p. m.	210 Chem Engr.
311	Saturday 10:10 a. m.	204 Norwood
312	Monday 1:00 p. m.	206 Norwood
323	Tuesday 10:10 a. m.	103 Old Chem
327 a	Wednesday 1:00 p. m.	204 Norwood
327 b	Wednesday 1:00 p. m.	204 Norwood
361	Monday 10:10 a. m.	200 Norwood
381	See Instructor	See Instructor
421	See Instructor	See Instructor
423	See Instructor	See Instructor
431	See Instructor	See Instructor
433	See Instructor	See Instructor
461	See Instructor	See Instructor
489	See Instructor	See Instructor

Humanities English

1 a	Thursday 3:10 p. m.	See Instructor
1 b	Saturday 8:00 a. m.	See Instructor
1 c	Monday 10:10 a. m.	See Instructor
1 d	Wednesday 3:10 p. m.	See Instructor
1 e	Monday 8:00 a. m.	See Instructor
1 f	Tuesday 8:00 a. m.	See Instructor
1 g	Saturday 1:00 p. m.	See Instructor
2 a	Friday 3:10 p. m.	See Instructor
2 b	Wednesday 1:00 p. m.	See Instructor
51 a	Friday 3:10 p. m.	See Instructor
51 b	Wednesday 3:10 p. m.	See Instructor
75 a	Thursday 3:10 p. m.	See Instructor
75 b	Tuesday 8:00 a. m.	See Instructor
100 a	Wednesday 3:10 p. m.	See Instructor
100 b	Saturday 1:00 p. m.	See Instructor
102 a	Saturday 8:00 a. m.	See Instructor
102 b	Monday 3:10 p. m.	See Instructor
110 a	Saturday 8:00 a. m.	See Instructor
110 b	Monday 8:00 a. m.	See Instructor
125 a	Friday 3:10 p. m.	See Instructor
125 b	Wednesday 1:00 p. m.	See Instructor
150	Wednesday 1:00 p. m.	See Instructor
170 a	Saturday 8:00 a. m.	See Instructor
170 b	Wednesday 1:00 p. m.	See Instructor

French

1	Saturday 8:00 a. m.	See Instructor
2	Friday 3:10 p. m.	See Instructor
4	Friday 1:00 p. m.	See Instructor

German

1	Saturday 8:00 a. m.	See Instructor
2	Thursday 3:10 p. m.	See Instructor
3	Wednesday 1:00 p. m.	See Instructor
4	See Instructor	See Instructor

Spanish

1	Thursday 3:10 p. m.	See Instructor
2	See Instructor	See Instructor
3	Wednesday 3:10 p. m.	See Instructor
4	See Instructor	See Instructor

Economics

100 a	Thursday 3:10 p. m.	See Instructor
100 b	Friday 3:10 p. m.	See Instructor
100 c	Saturday 8:00 a. m.	See Instructor
100 d	Wednesday 1:00 p. m.	See Instructor
100 e	Thursday 10:10 a. m.	See Instructor
101 a	Thursday 3:10 p. m.	See Instructor
101 b	Saturday 8:00 a. m.	See Instructor
101 c	Wednesday 3:10 p. m.	See Instructor
101 d	Wednesday 1:00 p. m.	See Instructor
101 e	Thursday 10:10 a. m.	See Instructor
114	Saturday 8:00 a. m.	See Instructor
115	Wednesday 1:00 p. m.	See Instructor
116	Wednesday 3:10 p. m.	See Instructor
130	Monday 10:10 a. m.	See Instructor
132	Monday 8:00 a. m.	See Instructor
156 a	Saturday 8:00 a. m.	See Instructor
156 b	Wednesday 3:10 p. m.	See Instructor
156 c	Saturday 1:00 p. m.	See Instructor

History

160 a	Thursday 3:10 p. m.	See Instructor
160 b	Friday 3:10 p. m.	See Instructor
160 c	Saturday 8:00 a. m.	See Instructor
160 d	Wednesday 3:10 p. m.	See Instructor
160 e	Wednesday 1:00 p. m.	See Instructor
160 f	Friday 1:00 p. m.	See Instructor
178	Monday 8:00 a. m.	See Instructor
181	Monday 10:10 a. m.	See Instructor
191	Wednesday 3:10 p. m.	See Instructor

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151	Wednesday 1:00 p. m.	See Instructor
Mathematics		
B	Friday 10:10 a. m.	See Instructor
C	Friday 10:10 a. m.	See Instructor
3	Friday 10:10 a. m.	See Instructor
4	Saturday 10:10 a. m.	See Instructor
21	Friday 10:10 a. m.	See Instructor
A	Saturday 10:10 a. m.	See Instructor
8	Saturday 10:10 a. m.	See Instructor
22	Saturday 10:10 a. m.	See Instructor
301	Saturday 10:10 a. m.	See Instructor
302	Saturday 8:00 a. m.	202 Old Chem
304	Wednesday 3:10 p. m.	201 Old Chem
310	Wednesday 1:00 p. m.	201 Old Chem
311	Thursday 3:10 p. m.	204 Old Chem
322	Friday 3:10 p. m.	201 Old Chem
350	Saturday 10:10 a. m.	203 Old Chem
401	Wednesday 3:10 p. m.	202 Old Chem
Mechanical Engineering		
101 a	Monday 10:10 a. m.	206 Mech Hall
101 b	Monday 8:00 a. m.	204 Mech Hall
101 c	Monday 1:00 p. m.	204 Mech Hall
103	Thursday 3:10 p. m.	211 Mech Hall
105	Friday 3:10 p. m.	211 Mech Hall
121 a	Thursday 3:10 p. m.	210 Mech Hall
121 b	Friday 3:10 p. m.	204 Mech Hall
121 c	Saturday 8:00 a. m.	211 Mech Hall
121 e	Wednesday 1:00 p. m.	204 Mech Hall
121 f	Tuesday 8:00 a. m.	204 Mech Hall
123 a	Saturday 8:00 a. m.	210 Mech Hall
123 b	Saturday 1:00 p. m.	204 Mech Hall
151 a	Friday 10:10 a. m.	210 Mech Hall
151 b	Monday 3:10 p. m.	207 Mech Hall
151 c	Thursday 1:00 p. m.	204 Mech Hall
171 a	Saturday 8:00 a. m.	207 Mech Hall
171 b	Wednesday 3:10 p. m.	204 Mech Hall
181 a	Wednesday 3:10 p. m.	211 Mech Hall
181 b	Wednesday 1:00 p. m.	206 Mech Hall
183	Thursday 3:10 p. m.	107 Mech Hall
195 a	Wednesday 1:00 p. m.	210 Mech Hall
195 b	Tuesday 8:00 a. m.	211 Mech Hall
200	Monday 3:10 p. m.	206 Mech Hall
201 a	Wednesday 3:10 p. m.	206 Mech Hall
201 b	Wednesday 3:10 p. m.	210 Mech Hall
201 c	Tuesday 8:00 a. m.	210 Mech Hall
221 a	Monday 8:00 a. m.	211 Mech Hall
221 b	Tuesday 8:00 a. m.	206 Mech Hall
305	Friday 1:00 p. m.	107 Mech Hall
313	Friday 10:10 a. m.	211 Mech Hall
323	Saturday 10:10 a. m.	204 Mech Hall
433	Friday 10:10 a. m.	202 Mech Hall
Mechanics		
51	Thursday 8:00 a. m.	See Instructor
102	Thursday 8:00 a. m.	See Instructor
103	Friday 8:00 a. m.	103 Old Chem. & 300 Harris
105	Friday 8:00 a. m.	227 Met
302	Wednesday 1:00 p. m.	229 Met
306	Thursday 8:00 a. m.	229 Met
406	Thursday 3:10 p. m.	223 Met
408	Wednesday 3:10 p. m.	223 Met
Metallurgical Engineering		
101	Thursday 3:10 p. m.	106 Exp. Station
109	Wednesday 3:10 p. m.	205 Exp. Station

113 a & b
115 a & b
152
203
205
207
241
245
251
253 a & b
302 a & b
307
355
407

Tuesday 10:10 a. m.
Monday 3:10 p. m.
Tuesday 8:00 a. m.
Wednesday 3:10 p. m.
Monday 10:10 a. m.
Monday 3:10 p. m.
Friday 3:10 p. m.
Tuesday 10:10 a. m.
Monday 8:00 a. m.
Wednesday 1:00 p. m.
Tuesday 10:10 a. m.
Friday 10:10 a. m.
Saturday 8:00 a. m.
See Instructor

Military

Saturday 3:10 p. m.
Saturday 3:10 p. m.
Saturday 3:10 p. m.
Saturday 3:10 p. m.

Mining Engineering

Saturday 8:00 a. m.
Saturday 8:00 a. m.
Monday 3:10 p. m.
Monday 3:10 p. m.
Monday 10:10 a. m.
Friday 3:10 p. m.
Thursday 3:10 p. m.
Monday 3:10 p. m.
Monday 10:10 a. m.
Monday 8:00 a. m.
Thursday 3:10 p. m.
Saturday 8:00 a. m.
Tuesday 8:00 a. m.
Wednesday 3:10 p. m.
Wednesday 1:00 p. m.
Saturday 10:10 a. m.
Wednesday 1:00 p. m.
Thursday 3:10 p. m.
Wednesday 3:10 p. m.
Friday 3:10 p. m.
Wednesday 3:10 p. m.
Friday 1:00 p. m.
Saturday 3:10 p. m.
Saturday 8:00 a. m.
Monday 8:00 a. m.
Monday 8:00 a. m.
Friday 3:10 p. m.
Friday 10:10 a. m.
See Instructor

Physics

21 a, b & c
25 a & b
301
311
331
333
335
337
339
351
423
453
481

Thursday 1:00 p. m.
Thursday 1:00 p. m.
Wednesday 3:10 p. m.
Thursday 3:10 p. m.
Monday 8:00 a. m.
Saturday 3:10 p. m.
Friday 10:10 a. m.
Wednesday 1:00 p. m.
Friday 3:10 p. m.
Saturday 8:00 a. m.
Saturday 10:10 a. m.
Monday 10:10 a. m.
Monday 8:00 a. m.

227 Met
12 Exp. Station
205 Exp. Station
12 Exp. Station
106 Exp. Station
106 Exp. Station
205 Exp. Station
205 Exp. Station
12 Exp. Station
8 Chem Engr.
12 Exp. Station
106 Exp. Station
See Instructor

Auditorium
103 Old Chem
203 Mil Bldg.
200 Mil Bldg.

204 Mech Hall
T-6: 100
107 Min
T-6: 100
T-6: 100
107 Min
106 Min
106 Min
107 Min
T-6: 100
107 Min
204 Min
T-6: 100
106 Min
106 Min
106 Min
204 Min
204 Min
106 Min
See Instructor

PLEASE NOTE: Physics 21 can be held in 104, 204 Norwood, 8 and 210 Chem Engr. for those rooms are available at the time the Phys 21 final is scheduled.

Bishop's

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"EASIEST TEST
in the **BOOK"**

GORDON A. READE: U. OF MAINE '51

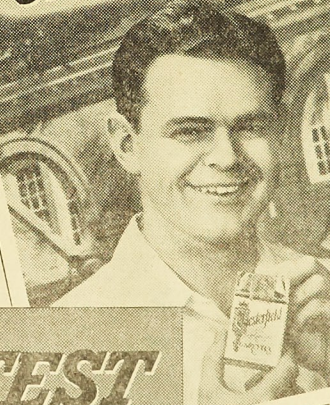
MAKE THE TOBACCO GROWERS
MILDNESS TEST YOURSELF...

YES... Compare Chesterfield with the brand you've been smoking... Open a pack... enjoy that milder Chesterfield aroma.

And—tobaccos that smell milder smoke milder. So smoke Chesterfields—prove they do smoke milder, and they leave NO UNPLEASANT AFTER-TASTE.

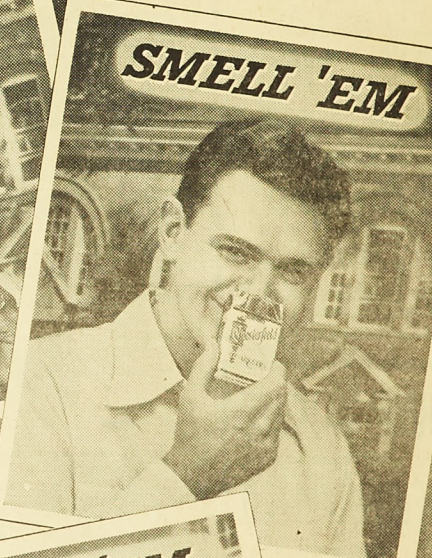
CHESTERFIELD

OPEN 'EM



PHOTOGRAPHS TAKEN ON CAMPUS

SMELL 'EM



SMOKE 'EM



LEADING SELLER
IN AMERICA'S
COLLEGES